

Claims

1. A recloser control apparatus compatible with various reclosers, comprising:

a protective relay for power lines responsive to voltage and current values from the power line to identify faults present on the power line and in combination with a recloser apparatus to restore power to selected areas of the power system which have been initially put out of service in response to a fault indication; and

a control interface system capable of providing control signals for a plurality of different reclosers having different control requirements, the interface system including a charging system capable of producing control voltages for controlling trip and close coils of various reclosers having different control voltage requirements.

2. The apparatus of claim 1, including an input power converter for providing the control interface, including the charging system with a 12 volt bus signal, the power converter being responsive to a source voltage to produce the 12 volt signal.

3. The apparatus of claim 1, including a DC/DC converter for producing the voltages necessary to power the recloser control apparatus from the 12 volt DC bus line.

4. The apparatus of claim 1, wherein the charging system includes an input capacitor, a flyback transmitter, a switching element with a control circuit, an output filter and a capacitor discharge circuit for producing the selected voltages for the trip and close coils of the recloser.

5. The apparatus of claim 1, including a 12 volt battery, a battery charge control logic circuit and a battery charger circuit for maintaining the battery in a charged condition.

6. The apparatus of claim 1, including a housing which includes a removable plate in one portion thereof, wherein the removable plate includes an opening which is correctly sized for a

wiring connector between the recloser control apparatus and the recloser.

7. The apparatus of claim 1, including a housing for the apparatus having front and rear doors for access to the front and rear of the apparatus, each of said doors being separately and independently lockable.